

Turning Wastewater into Renewable Energy

The City of Dayton Department of Water Renewable Natural Gas (RNG) Operations

What is it?

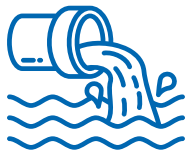
Renewable Natural Gas (RNG) is produced from biogas, a byproduct of wastewater treatment, that is processed to create pipeline-quality natural gas.

Why is it important?

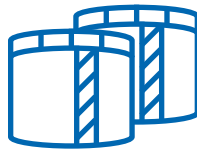
RNG is a **renewable energy resource** that helps **reduce greenhouse gas emissions** while creating a sustainable form of energy for heating, electricity and fuel.

How does it work?

Wastewater Enters
Water Reclamation Facility



Anaerobic Digestion
Breaks Down Waste

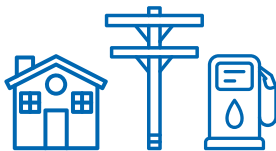


Digester Biogas
is Collected

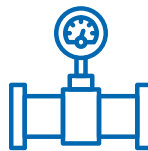


The City of Dayton Department of Water
Renewable Natural Gas Process

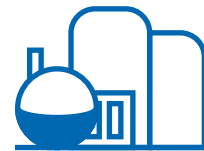
Renewable Natural Gas Used
for Heat, Electricity & Fuel



Renewable Natural Gas is
Injected into Distribution Lines



Biogas Scrubbed and Upgraded
to Renewable Natural Gas



Sustainable Source for Energy Generation

650,000 STANDARD CUBIC FEET

of Biogas Produced Daily

Yearly Produced Digester Biogas Can:

Supply natural gas to heat about

**3,700 AVERAGE
MIDWEST HOMES**

Provide energy equivalent of

**1,300,000 GALLONS
OF GASOLINE**

Key Benefits

CREATES CITY OF DAYTON
**\$800,000 ANNUAL
REVENUE STREAM**

50% REDUCTION
CARBON FOOTPRINT AT
CITY OF DAYTON FACILITIES

ONE OF THE FIRST
MUNICIPAL WASTEWATER-
DERIVED RENEWABLE
NATURAL GAS PROGRAMS

ACHIEVES KEY
SUSTAINABILITY GOAL
DAYTON CITY COMMISSION